

HTEC-600

HPLC-ECD SYSTEM



HTEC-600

Ultra-High Sensitivity Electrochemical Detection



<Specification>	
HPLC-ECD	
<Detector>	
Electrochemical Cell	Amperometric
Applied Voltage Range	0 ~ ±2,000 mV、1 mV step
Working electrode method	Thin layer type
Working Electrode	Graphite (standard)、Pure graphite、Grassy carbon Platinum、Gold、Silver
Working electrode gasket	Made by TFE thickness of 25 μm or 50 μm
Reference Electrode	Silver/Silver chloride
Counter Electrode	SUS316
Wetted part(material)	PEEK、SUS316
Recorder Output	±10 V analog (0.1 nA = 1 mV)
Time constant	1.0 sec、1.5 sec、3.0 sec
Output signal	SIGNAL IN : Contact signal 300 msec over detect M.INJECTOR SIGNAL IN : open/ close detected in 300 sec after signal switching
<Pump>	
1 stroke capacity	80 μL
Piston material	Sapphire
Set flow rate range	1 ~ 3000 μL/min
Stable flow range	100 ~ 2000 μL/min
Wetted part(material)	PEEK、Sapphire、Ruby、PTFE、PCTFE
Withstand voltage	20 MPa
<Degasser>	
Number of passes	2 channels
Internal capacity	Upper row : about 300 μL/ flow channel Lower row : about 7.5 mL/ flow channel
<Constant temperature oven>	
Temperature Range	15 ~ 50°C (1°Cstep)
Temperature Accuracy	±0.1°C
<Size, weight, power>	
Size (W x D x H)	290 W x 380 D x 435 H mm
Weight	23.2 kg
Power	AC 100 ~ 240 V 50/60 Hz 300 VA

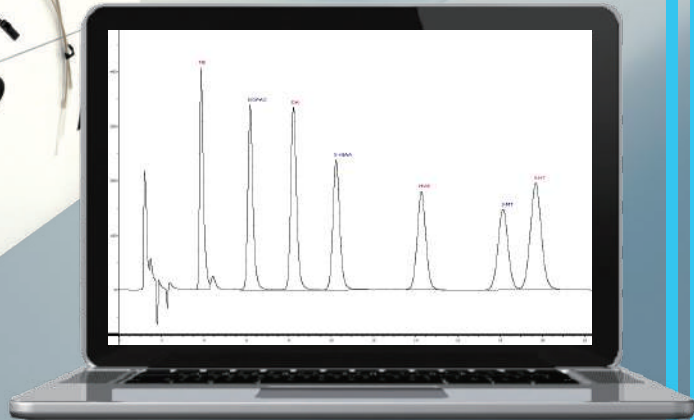


HTEC-600

Ultra
High Sensitivity

EiCOM

ALL IN ONE
HPLC-ECD SYSTEM



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HTEC-600

微量生体試料分析システム
Feature



HTEC-600

微量生体試料分析システム
測定可能な物質

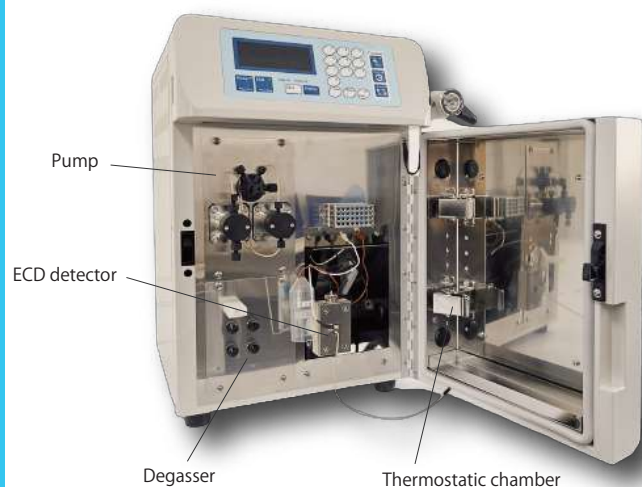


HTEC-600

✓ Ultra-High Sensitivity and Stability

- Ultrasensitive, 30 fg of dopamine, serotonin • Eicom's Innovative Cell Design
- System Design with Pulsation Free Pump • Temperature Regulated System with Both Cooler and Heater
- Optimized Applications for the ECD

As you can see, the sensitivity could not be achieved only by the detector.



✓ All-In-One With A Small Footprint

The liquid feed pump, degasser, thermostatic chamber, and electrochemical detector have been integrated. This makes it possible to make use of analysis applications for other detectors, such as flow speeds exceeding 500 μ L /min.* The new model can be used with long columns which could not be placed in a chamber for the previous model, allowing it to support a wider range of analysis applications.

✓ PURGE function

This function allows for high-speed liquid feeding. The operation time can be set, and there is no need to be concerned over liquid drying out. Air bleeding and liquid exchanging can be performed automatically, significantly improving pump errors (the most frequent general issue with HPLC).

✓ TIMER function

This function can turn the pump and ECD ON/OFF individually using time-based control. The operation time can be controlled, allowing consumption during the mobile phase to be minimized. This function can be used to operate the pump and ECD efficiently, allowing for trouble-free sample measurement.

✓ Easy to Maintain

The simple compact design of the HTEC-600 (HPLC-ECD) allows for easy maintenance. No tools to access the working electrode/ Easy to clean or change the working electrode

✓ L.SWITCH function

ELS-500 can be controlled from HTEC-600. Eliminating contamination during the later stage of a chromatogram can streamline amino acid analysis or analysis for samples in which contamination is produced comparatively more often. The ease-of-use provided by ELS-500 is a major advantage when conducting experiments.

✓ Superior Customer Support

We assign a trained application specialist to work directly with you from the beginning. This way we build an efficient working relationship and can help resolve any issues immediately.

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HTEC-600 measured substance

- Dopamine • DOPAC • HVA • 3MT • L-DOPA
- Norepinephrine • MHPG • Normetanephrine
- Epinephrine • Serotonin • 5-HIAA
- Melatonin • Phenols • acetylcholine • Colin
- Hydroxyl radical • Ascorbic acid • Tocopherol
- Estradiol • 80H-dG • Nitro tyrosine
- GSH • GSSG • Aspartic acid • Glutamic acid
- glutamine • glycine • Tannins • Alanine
- GABA etc

There is another. For more details contact us!

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